

II. CLAIM AMENDMENTS

1. (Previously Presented) A method for transferring information over a data connection according to a protocol stack where certain first protocol layers and certain second protocol layers exist, comprising the steps of

creating a protocol identifier,

determining a value for said protocol identifier in accordance with the first protocol layers in said protocol stack and

signaling said protocol identifier to the second protocol layers in said protocol stack.

2. (Currently Amended) The method of claim 1, comprising the steps of

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establishing a data connection between a first communications apparatus and second communications apparatus,

determining a value for said protocol identifier in said first communications apparatus and

~~delivering~~signaling said protocol identifier from the first communications apparatus to the second communications apparatus.

3. (Currently Amended) The method of claim 1, comprising the steps of

establishing a data connection between a first communications apparatus and a second communications apparatus via a third communications apparatus,

determining a value for said protocol identifier in said first communications apparatus and

~~delivering~~signaling said protocol identifier from the first communications apparatus to the third communications apparatus.

4. (Currently Amended) The method of claim 1, comprising the steps of

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establishing a data connection between a first communications apparatus and a second communications apparatus via a third communications apparatus,

determining a value for said protocol identifier in said third communications apparatus and

~~delivering~~signaling said protocol identifier from the third communications apparatus to the first communications apparatus.

5. (Currently Amended) The method of claim 1, comprising the steps of

establishing a data connection between a first communications apparatus and a second communications apparatus via a third communications apparatus and a fourth communications apparatus,

determining a value for said protocol identifier in said third communications apparatus and

~~deliveringsignaling~~ said protocol identifier from the third communications apparatus to the fourth communications apparatus.

6. (Currently Amended) The method of claim 1, comprising the step of ~~deliveringsignaling~~ said protocol identifier over said data connection.

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7. (Currently Amended) The method of claim 1, comprising the step of ~~deliveringsignaling~~ said protocol identifier over a control connection which is different than said data connection.

8. (Currently Amended) The method of claim 1, comprising the step of ~~deliveringsignaling~~ said protocol identifier in conjunction with the opening of said data connection.

9. (Currently Amended) The method of claim 1, comprising the step of ~~deliveringsignaling~~ said protocol identifier at a certain stage after the opening of said data connection.

10. (Currently Amended) The method of claim 1, comprising the step of repeatedly ~~deliveringsignaling~~ said protocol identifier at certain intervals.

11. (Currently Amended) The method of claim 1, comprising the steps of

determining and ~~deliveringsignaling~~ said protocol identifier more than once during said data connection,

determining said protocol identifier at each time on the basis of a certain part of the first protocol layers, and

choosing said part of the first protocol layers such that the chosen part is not identical at all instances of determination.

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12. (Original) The method of claim 1, comprising the steps of
adapting said protocol identifier so as to comprise elements and
determining each element of said protocol identifier on the basis of a certain part of the first protocol layers.

13. (Currently Amended) ~~The method of claim 12, comprising the steps of~~

A method for transferring information over a data connection according to a protocol stack where certain first protocol layers and certain second protocol layers exist, comprising:

creating a protocol identifier;

determining a value for said protocol identifier in accordance with the first protocol layers in said protocol stack;

signaling said protocol identifier to the second protocol layers in said protocol stack;

adapting said protocol identifier so as to comprise elements including a first element and a second element;

determining each element of said protocol identifier on the basis of a certain part of the first protocol layers; and

~~adapting said protocol identifier so as to comprise a first element and a second element, and~~

determining said second element so that it defines in more detail a certain part of the first protocol layers generally defined by said first element.

14. (Original) The method of claim 1, comprising the step of placing said protocol identifier into a protocol frame of a certain protocol layer together with certain data to be transferred.

15. (Original) The method of claim 14, comprising the step of placing said protocol identifier into a field within a protocol frame which field is reserved for the protocol identifier.

16. (Original) The method of claim 15, comprising the step of placing said protocol identifier into a field within a protocol frame of a certain logical link control protocol.

17. (Original) The method of claim 1, comprising the step of determining a value for said protocol identifier in accordance with the contents of the data transferred over said data connection..

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18. (Previously Presented) A communications apparatus arranged to transfer information to another communications apparatus in accordance with a protocol stack comprising certain first protocol layers and certain second protocol layers, comprising

means for creating a protocol identifier,

means for determining the value of said protocol identifier in accordance with the first protocol layers of said protocol stack, and

means for signaling said protocol identifier to the second protocol layers of said protocol stack in either said communications apparatus itself or in said other communications apparatus.

19. (Previously Presented) A communications apparatus arranged to transfer information from another communications apparatus in accordance with a protocol stack comprising first and second protocol layers, comprising

means for signaling to said second protocol layers a protocol identifier the value of which is determined in accordance with the first protocol layers of said protocol stack.

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20. (Previously Presented) A data communication system comprising

a first communications apparatus and second communications apparatus

means for transferring information between said first and second communications apparatuses in accordance with a protocol stack comprising certain first protocol layers and certain second protocol layers,

at least in the first communications apparatus means for creating a protocol identifier,

at least in the first communications apparatus means for determining the value of said protocol identifier in accordance with the first protocol layers of said protocol stack, and

at least in the first communications apparatus means for signaling said protocol identifier to the second protocol layers of said protocol stack.

21. (Currently Amended) The data communication system of claim 20, wherein

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the first communications apparatus is a wireless terminal in a radio access network,

said means for transferring information is arranged to ~~deliver~~ signal said protocol identifier to the second communications apparatus, and

the second communications apparatus is a network element in said radio access network.

22. (Currently Amended) The data communication system of claim 21, wherein said means for transferring information is arranged to ~~deliver~~ signal said protocol identifier across a radio interface of a mobile network in a call control connection.

23. (Currently Amended) The data communication system of claim 20, wherein

the first communications apparatus is a network element in a radio access network,

said means for transferring information is arranged to deliver signal said protocol identifier to the second communications apparatus, and

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the second communications apparatus is a wireless terminal in said radio access network.

24. (Currently Amended) The data communication system of claim 23, wherein said means for transferring information is arranged to deliver signal said protocol identifier across a radio interface of a mobile network in a call control connection.
